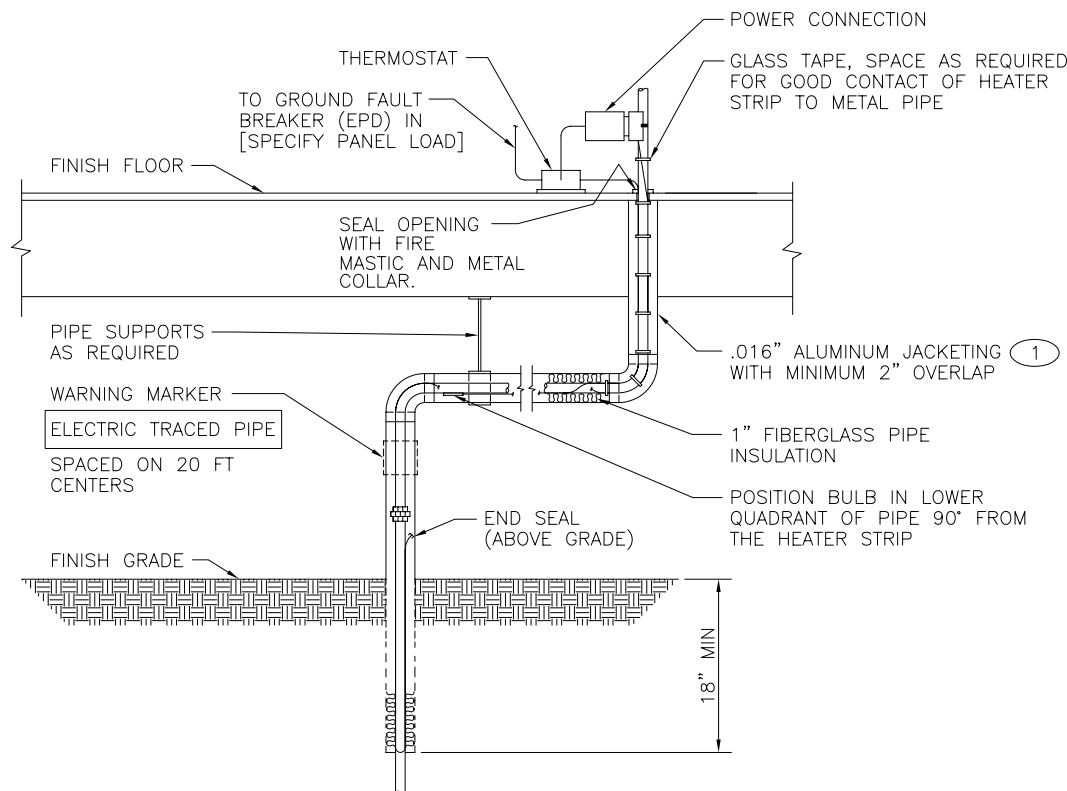


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### KEYED NOTES:

- 1 SECURE WITH 1/2" WIDE ALUMINUM STRAPS, 16" CENTERS.

## FREEZE PROTECTION DETAIL


SCALE: NONE

### NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE ESM MECHANICAL POC.
2. FOR CRITICAL FACILITIES, A CIRCUIT CONTINUITY ALARM MAY BE REQUIRED. REFER TO IEEE STD 622 FOR NUCLEAR FACILITIES.
3. SUGGESTED HEATER CABLE SPECIFICATION FOR TRAILERS/TRANSPORTABLES POTABLE AND FIRE WATER PIPING. COORDINATE DESIGN WITH MANUFACTURER'S REPRESENTATIVE.
  - a) SELF REGULATING HEATER CABLE, 3 WATTS/FT, 120V, NO. LT3-CB, WITH POWER CONNECTION KIT, NO. PLT-BC-[B3]\*, AND THERMOSTAT, NO TF4X40, MFR: NELSON HEAT TRACING SYSTEM, (505) 256-1300, OR APPROVED EQUAL.

\*SPECIFY: "B3" FOR PIPE SIZES UP TO 3", "B12" FOR PIPE SIZES LARGE THAN 3" TO 12".

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

3	8-14-03	U	EDITORIAL CHANGES & DWG NO. WAS ST6900.	RP	RF	RR	GG	TO
2	9-6-02	U	REVISED KEY NOTES AND DESIGNER NOTES.	RP	JR	GG	GG	TO
1	5-10-01	U	REVISED TO COMPLY WITH DRAFTING MANUAL. ADDED KEYED NOTES & DESIGNER NOTE. REVISED FLOOR PENETRATION.	RP	RR	KB	TO	TO
NO	DATE	CLASS REV	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
<div><div><div><div></div><div>FWO</div></div><div>FACILITY &amp; WASTE OPERATIONS DESIGN ENGINEERING CONSTRUCTION SERVICES</div></div></div>								
ENGINEERING STANDARDS MANUAL								
FREEZE PROTECTION DETAIL WATER PIPING				DRAWN	R. PEARSON			
				DESIGN	R. ROMERO			
				CHECKED	K. BECKMAN			
BLDG X				DATE	6-28-99			
TA-X								
SUBMITTED				APPROVED FOR RELEASE				
DISCIPLINE POC: GURINDER GREWAL				STANDARDS MANAGER: TOBIN GRUCH				
				SHEET	1			
				PO Box 1663 Los Alamos, New Mexico 87545	1 OF 1			
CLASSIFICATION U				DRAWING NO	DATE			
PROJECT ID				REVIEWER LARRY BAYS	REV			
CHAPTER 6				ST-D10-30GEN-2	3			